

GCCGCGGCGCCCCGAGGCGGGAGCAAGAGGCGCCGGGAGCCGCGAGGATCCACC  
 GCCGCGGCGCGCGCCATGGAGCCCCGAGTGAGCGCGCGGCGCTCCCCGGCCGCGG  
 GACGACATGGAAACGGCGCCGACCCGGGCCCCCTCCGCGCGCGCCGCGCGCT  
 GCTGCTGCTGGTGCTGTACTGCAGCTTGGTCCCCGCGCGGCCTCACCGCTCC  
 TGTTGTTTGCCAACCGCCGGGATGTGCGGCTAGTGGATGCCGGCGGAGTGAAG  
 CTGGAGTCCACCATTTGTGGCCAGTGGCCTGGAGGATGCAGCTGCTGTAGACTT  
 CCAGTTCTCCAAGGGTGCTGTGTACTGGACAGATGTGAGCGAGGAGGCCATCA  
 AACAGACCTACCTGAACCAGACTGGAGCTGCTGCACAGAACATTGTCATCTCG  
 GGCCTCGTGTCACCTGATGGCCTGGCCTGTGACTGGGTTGGCAAGAAGCTGTA  
 CTGGACGGACTCCGAGACCAACCGCATTGAGGTTGCCAACCTCAATGGGACGT  
 CCCGTAAGGTTCTCTTCTGGCAGGACCTGGACCAGCCAAGGGCCATTGCCCTG  
 GATCCTGCACATGGGTACATGTACTGGACTGACTGGGGGGAAGCACCCCGGAT  
 CGAGCGGGCAGGGATGGATGGCAGTACCCGGAAGATCATTGTAGACTCCGACA  
 TTTACTGGCCCAATGGGCTGACCATCGACCTGGAGGAACAGAAGCTGTACTGG  
 GCCGATGCCAAGCTCAGCTTCATCCACCGTGCCAACCTGGACGGCTCCTTCCG  
 GCAGAAGGTGGTGGAGGGCAGCCTCACTCACCCCTTTTGCCCTGACACTCTCTG  
 GGGACACACTCTACTGGACAGACTGGCAGACCCGCTCCATCCACGCCTGCAAC  
 AAGTGGACAGGGGAGCAGAGGAAGGAGATCCTTAGTGCTCTGTACTCACCCAT  
 GGACATCCAAGTGCTGAGCCAGGAGCGGCAGCCTCCCTTCCACACACCATGCG  
 AGGAGGACAACGGTGGCTGTTCCCACCTGTGCCTGCTGTCCCCGAGGGAGCCT  
 TTCTACTCCTGTGCCTGCCCCACTGGTGTGCAGTTGCAGGACAATGGCAAGAC  
 GTGCAAGACAGGGGCTGAGGAAGTGCTGCTGCTGGCTCGGAGGACAGACCTGA  
 GGAGGATCTCTCTGGACACCCCTGACTTCACAGACATAGTGCTGCAGGTGGGC  
 GACATCCGGCATGCCATTGCCATTGACTACGATCCCCTGGAGGGGCTACGTGTA  
 CTGGACCGATGATGAGGTGCGGGCTATCCGCAGGGCGTACCTAGATGGCTCAG  
 GTGCGCAGACACTTGTGAACACTGAGATCAATGACCCCGATGGCATTTGCTGTG  
 GACTGGGTGCCCCGGAACCTCTACTGGACAGATACAGGCACTGACAGAATTGA  
 GGTGACTCGCCTCAACGGCACCTCCCGAAAGATCCTGGTATCTGAGGACCTGG  
 ACGAACC GCGAGCCATTGTGTTGCACCCTGTGATGGGCCTCATGTACTGGACA  
 GACTGGGGGGAGAACCCCAAAATCGAATGCGCCAACCTAGATGGGAGAGATCG  
 GCATGTCCTGGTGAACACCTCCCTTGGGTGGCCCAATGGACTGGCCCTGGACC  
 TGCAGGAGGGCAAGCTGTACTGGGGGGATGCCAAAACCTGATAAAAATCGAGGTG  
 ATCAACATAGACGGGACAAAGCGGAAGACCCTGCTTGAGGACAAGCTCCCACA  
 CATTTTTGGGTTTCACTGCTGGGGGACTTCATCTACTGGACCGACTGGCAGA  
 GACGCAGTATTGAAAGGGTCCACAAGGTCAAGGCCAGCCGGGATGTCATCATT  
 GATCAACTCCCCGACCTGATGGGACTCAAAGCCGTGAATGTGGCCAAGGTGTG  
 CGGAACCAACCCATGTGCGGATGGAAATGGAGGGTGCAGCCATCTGTGCTTCT  
 TCACCCACGTCGCCACCAAGTGTGGCTGCCCCATTGGCCTGGAGCTGTTGAGT  
 GACATGAAGACCTGCATAATCCCCGAGGCCTTCTGGTATTCACCAGCAGAGC  
 CACCATCCACAGGATCTCCCTGGAGACTAACAACAACGATGTGGCTATCCCAC  
 TCACGGGTGTCAAAGAGGCCTCTGCACTGGACTTTGATGTGTCCAACAATCAC

FIGURE 1A

ATCTACTGGACTGATGTTAGCCTCAAGACGATCAGCCGAGCCTTCATGAATGG  
 GAGCTCAGTGGAGCACGTGATTGAGTTTGGCCTCGACTACCCTGAAGGAATGG  
 CTGTGGACTGGATGGGCAAGAACCTCTATTGGGCGGACACAGGGACCAACAGG  
 ATTGAGGTGGCCCCGGCTGGATGGGCAGTTCCGGCAGGTGCTTGTGTGGAGAGA  
 CCTTGACAACCCAGGTCTCTGGCTCTGGATCCTACTAAAGGCTACATCTACT  
 GGACTGAGTGGGGTGGCAAGCCAAGGATTGTGCGGGCCTTCATGGATGGGACC  
 AATTGTATGACACTGGTAGACAAGGTGGGCGGGCCAACGACCTCACCATTGA  
 TTATGCCGACCAGCGACTGTACTGGACTGACCTGGACACCAACATGATTGAGT  
 CTTCCAACATGCTGGGTGAGGAGCGCATGGTGATAGCTGACGATCTGCCCTAC  
 CCGTTTGGCCTGACTCAATATAGCGATTACATCTACTGGACTGACTGGAACCT  
 GCATAGCATTGAACGGGCGGACAAGACCAGTGGGCGGAACCGCACCCCTCATCC  
 AGGGTCACCTGGACTTCGTTCATGGACATCCTGGTGTTCCTCCTCCCGTCAG  
 GATGGCCTCAACGACTGCGTGCACAGCAATGGCCAGTGTGGGCAGCTGTGCCT  
 CGCCATCCCCGGAGGCCACCGCTGTGGCTGTGCTTCACACTACACGCTGGACC  
 CCAGCAGCCGCAACTGCAGCCCGCCCTCCACCTTCTTGCTGTTTACGCCAGAAA  
 TTTGCCATCAGCCGGATGATCCCCGATGACCAGCTCAGCCCGGACCTTGTCTCT  
 ACCCCTTCATGGGCTGAGGAACGTCAAAGCCATCAACTATGACCCGCTGGACA  
 AGTTCATCTACTGGGTGGACGGGCGCCAGAACATCAAGAGGGCCAAGGACGAC  
 GGTACCCAGCCCTCCATGCTGACCTCTCCAGCCAAAGCCTGAGCCAGACAG  
 ACAGCCACACGACCTCAGCATTGACATCTACAGCCGGACACTGTTCTGGACCT  
 GTGAGGCCACCAACACTATCAATGTCCACCGGCTGGATGGGGATGCCATGGGA  
 GTGGTGCTTCGAGGGGACCGTGACAAGCCAAGGGCCATTGCTGTCAATGCTGA  
 GCGAGGGTACATGTACTTTACCAACATGCAGGACCATGCTGCCAAGATCGAGC  
 GAGCCTCCCTGGATGGCACAGAGCGGGAGGTCTCTTACCACAGGCCTCATC  
 CGTCCCGTGGCCCTTGTGGTGGACAATGCTCTGGGCAAGCTCTTCTGGGTGGA  
 TGCCGACCTAAAGCGAATCGAAAGCTGTGACCTCTCTGGGGCCAACCGCCTGA  
 CCCTGGAAGATGCCAACATCGTACAGCCAGTAGGTCTGACAGTGCTGGGCAGG  
 CACCTCTACTGGATCGACCGCCAGCAGCAGATGATCGAGCGCGTGGAGAAGAC  
 CACTGGGGACAAGCGGACTAGGGTTTCAGGGCCGTGTACCCACCTGACAGGCA  
 TCCATGCCGTGGAGGAAGTCAGCCTGGAGGAGTTCTCAGCCCATCCTTGTGCC  
 CGAGACAATGGCGGCTGCTCCACATCTGTATCGCCAAGGGTGATGGAACACC  
 GCGCTGCTCGTGCCCTGTCCACCTGGTGCTCCTGCAGAACCTGCTGACTTGTG  
 GTGAGCCTCCTACCTGCTCCCCTGATCAGTTTGCATGTACCACTGGTGAGATC  
 GACTGCATCCCCGGAGCCTGGCGCTGTGACGGCTTCCCTGAGTGTGCTGACCA  
 GAGTGATGAAGAAGGCTGCCAGTGTGCTCCGCCTCTCAGTTCCCCTGCGCTC  
 GAGGCCAGTGTGTGGACCTGCGGTTACGCTGCGACGGTGAGGCCGACTGCCAG  
 GATCGCTCTGATGAAGCTAACTGCGATGCTGTCTGTCTGCCCAATCAGTTCCG  
 GTGCACCAGCGGCCAGTGTGTCTCATCAAGCAACAGTGTGACTCCTTCCCCG  
 ACTGTGCTGATGGGTCTGATGAGCTCATGTGTGAAATCAACAAGCCACCCTCT  
 GATGACATCCCAGCCCACAGCAGTGCCATTGGGCCCCGTCATTGGTATCATCCT  
 CTCCCTCTTCGTTCATGGGCGGGGTCTACTTTGTCTGCCAGCGTGTGATGTGCC

FIGURE 1B

[illegible]

/

[illegible]

419

METAPTRAPPPPPPLLLLVLVYCSLVPAAASPLLLFANRRDVRLVDAGGVKLE  
 STIVASGLEDAAAVDFQFSKGAVYWTDVSEEAIKQTYLNQTGAAAQNIVISGL  
 VSPDGLACDWVGKKLYWTDSETNRIEVANLNGTSRKVLFWQDLDPRAIALDP  
 AHGYMYWTDWGEAPRIERAGMDGSTRKIIIVDSDIYWPNGLTIDLEEQKLYWAD  
 AKLSFIHRANLDGSFRQKVVEGSLTHPFALTLSGDTLYWTDWQTRS IHACNKW  
 TGEQRKEILSALYSPMDIQVLSQERQPPFHTPCEEDNGGC SHLCLLSPREPFY  
 SCACPTGVQLQDNGKTCKTGAEVLLLARRTDLRRI SLDTPDFTDIVLQVGDI  
 RHAIAIDYDPLEGYVYWTDDEVRAIRRAYLDGSGAQTLVNTEINDPDGIAVDW  
 VARNLYWTDGTGTDRIEVTRLNGTSRKILVSEDLDEPRAIVLHPVMGLMYWTDW  
 GENPKIECANLDGRDRHVLVNTSLGWPNGLALDLQEGKLYWGDAKTDKIEVIN  
 IDGTRKKTLLLEDKLP HIFGFTLLGDFIYWTDWQRRS IERVHKVKASRDV IIDQ  
 LPDLMGLKAVNVAKVVG TNPCADGNGGC SHLCFFT PRATKCGCPIGLELLSDM  
 KTCIIPEAF LVFTSRATIHRI SLETNNNDVAIPLTGVKEASALDFDVSNNHIY  
 WTDVSLKTI SRAFMNGSSVEHVIEFGLDYPEGMAVDWMGKNLYWADTGTNRIE  
 VARLDGQFRQVLVWRDL DNPRSLALDPTKGYIYWTEWGGKPRIVRAFMDGTNC  
 MTLVDKVGRANDLTIDYADQRLYWTDLDTNMIESSNMLGQERMVIADDLPYPF  
 GLTQYSDYIYWTDWNLHSIERADKTSGRNRTLIQGHLD FVMDILVFHSSRQDG  
 LNDCVHSNGQCGQLCLAI PGGHRCGCASHYTLDPSSRNCSPSTFLLFSQKFA  
 ISRMIPDDQLSPDLVLPLHGLRNVKAINYDPLDKFIYWVDGRQNIKRAKDDGT  
 QPSMLTSPS QSLSPDRQPHDLSIDIYSRTLFWTCEATNTINVHRLDGDAMGVV  
 LRGD RDKPRAIAVNAERGMYFTNMQDHA AKIERASLDGTEREVLT TGLIRP  
 VALVVDNALGKLFVVDADLKRIESCDLSGANRLTLEDANIVQPVG LTVLGRHL  
 YWIDRQQQM IERVEKTTGDKRTRVQGRVTHLTGIHAVEEV SLEEFSAHPCARD  
 NGGC SHICIAKGDGT PRCSCP VHLVLLQNL LTCGEPPTCSPDQFACTTGEIDC  
 IPGAWRCDGFPECADQSDEEGCPVCSASQFPCARGQCVDLRLRCDGEADCQDR  
 SDEANCD AVCLPNQFRCTSGQCVLIKQQCDSFPDCADGSDELMCEINKPPSDD  
 IPA HSSAIGPVIGIILSLFVMGGVYFVCQRVMCQRYTGASGPF PHEYVGGAPH  
 VPLNFIAPGGSQHGPFGIPCSKSVMSMSLVGGRGSVPLYDRNHVTGASSSS  
 SSSTKATLYPPILNPPPSPATDPSLYNVDVFYSSGIPATARPYR PYVIRGMAP  
 PTTPCSTDVCDSDYSISRWKSSKYLDLNSDSDPYPPPTPHSQYLSAEDSCP  
 PSPGTERS YCHLFP PPPSPCTDSS (SEQ ID NO: 8)

2

FIGURE 2

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# Construct

Gene: 193 GI Number(s): 6678715  
 Gene Family: EGF domain protein  
 Gene Subfamily: Low-density lipoprotein receptor  
 Gene Sequence: full-length cDNA, Mouse

underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

GCGCGGCGCGCCGAGGCGGGAGCAAGAGGCGCGGGAGCCGCGAGGATCCACCGCGCGCG  
 CGCGCGCCATGGAGCCCGAGTGAAGCGCGCGCGCTCCCGCGCGCGGACGACATGGAAAC  
 GGCGCGGACCGGCGCCCTCCGCGCGCGCGCGCGCTGCTGCTGCTGGTGTGTACTG  
 CAGCTTGGTCCCGCGCGCGCTCACCCTCCTGTTGTTTGGCAACCGCGCGGATGTGCG  
 GCTAGTGGATGCCGCGGAGTGAAGCTGGAGTCCACCATTGTGGCCAGTGGCCTGGAGGA  
 TGCAGCTGCTGTAGACTTCCAGTTCTCCAAGGGTGTGTGTACTGGACAGATGTGAGCGA  
 GGAGGCCATCAAACAGACCTACCTGAACCAGACTGGAGCTGCTGCACAGAACATTGTCTAT  
 CTCGGGCGCTCGTGTACCTGATGGCCTGGCCTGTGACTGGGTGGCAAGAAGCTGTACTG  
 GACGGACTCCGAGACCAACCGCATTTGAGGTTGCCAACCTCAATGGGACGTCCCGTAAGGT  
 TCTCTTCTGGCAGGACCTGGACCAGCCAAGGGCCATTGCCCTGGATCCTGCACATGGGTA  
 CATGTACTGGACTGACTGGGGGGAAGCACCCCGGATCGAGCGGGCAGGGATGGATGGCAG  
 TACCCGGAAGATCATTGTAGACTCCGACATTTACTGGCCCAATGGGCTGACCATCGACCT  
 GGAGGAACAGAAGCTGTACTGGGCGGATGCCAAGCTCAGCTTCATCCACCGTGCCAACT  
 GGACGGCTCCTTCCGGCAGAAGGTGGTGGAGGGCAGCCTCACTCACCTTTTGGCCTGAC  
 ACTCTCTGGGGACACACTCTACTGGACAGACTGGCAGACCCGCTCCATCCACGCGTGCAA  
 CAAGTGGACAGGGGAGCAGAGGAAGGAGATCCTTAGTGCTCTGTACTACCCATGGACAT  
 CCAAGTGCTGAGCCAGGAGCGGCAGCCTCCCTCCACACACCATGCGAGGAGGACAACGG  
 TGGCTGTTCCACCTGTGCTGTGCTGCCCGAGGGAGCCTTTCTACTCCTGTGCTGCCCC  
 CACTGGTGTGCACTGTGACGACAATGGCAAGACGTGCAAGACAGGGGCTGAGGAAGTGCT  
 GCTGCTGGCTCGGAGGACAGACCTGAGGAGGATCTCTCTGGACACCCCTGACTTCACAGA  
 CATAGTGCTGCAGGTGGGCGACATCCGGCATGCCATTGCCATTGACTACGATCCCTGGGA  
 GGGCTACGTGTACTGGACCGATGATGAGGTGCGGGCTATCCGCAGGGCGTACCTAGATGG  
 CTGAGGTGCGCAGACACTTGTGAACACTGAGATCAATGACCCGATGGCATTGTGTGGA  
 CTGGGTGCGCCGGAACCTCTACTGGACAGATACAGGCACTGACAGAATTGAGGTGACTCG  
 CCTCAACGGCACCTCCCGAAAGATCCTGGTATCTGAGGACCTGGACGAACCGCGAGCCAT  
 TGTGTTGCACCTGTGATGGGCCTCATGTACTGGACAGACTGGGGGGAGAACCCCAAAAT  
 CGAATGCGCCAACCTAGATGGGAGAGATCGGCATGTCCTGGTGAACACCTCCCTTGGGTG  
 GCGCAATGGACTGGCCTGGACCTGCAGGAGGGCAAGCTGTACTGGGGGGATGCCAAAAC  
 TGATAAAATCGAGGTGATCAACATAGACGGGACAAAGCGGAAGACCTGCTTGAGGACAA  
 GCTCCACACATTTTGGGTTACACTGCTGGGGGACTTCATCTACTGGACCGACTGGCA  
 GAGACGCACTATTGAAAGGGTCCACAAGGTCAAGGCCAGCCGGGATGTCATCATTGATCA  
 ACTCCCGACCTGATGGGACTCAAAGCCGTGAATGTGCCAAGGTTGTGCGGAACCAACCC  
 ATGTGCGGATGGAAATGGAGGGTGCAGCCATCTGTGCTTCTTACCCACAGTGCCACCAA  
 GTGTGGCTGCCCCATTGGCCTGGAGCTGTTGAGTGACATGAAGACCTGCATAATCCCCGA  
 GGCTTCTCTGGTATTCACAGCAGAGCCACCATCCACAGGATCTCCCTGGAGACTAACAA  
 CAACGATGTGGCTATCCCACTACGGGTGTCAAAGAGGCTCTGCCTGGACTTTGATGT  
 GTCCAAACATCAGATCTACTGGACTGATGTTAGCCTCAAGACGATCAGCCGAGCCTTCAT  
 GAATGGGAGCTCAGTGGAGCACGTGATTGAGTTTGGCCTCGACTACCTGAAGGAATGGC  
 TGTGGACTGGATGGGCAAGAACCTCTATTGGGCGGACACAGGGACCAACAGGATTGAGGT  
 GGCCCGGCTGGATGGGCAAGTTCGGGCGAGGTGCTTGTGTGGAGAGACCTTGACAACCCAG  
 GTCTCTGGCTCTGGATCCTACTAAAGGCTACATCTACTGGACTGAGTGGGGTGGCAAGCC  
 AAGGATTGTGCGGGGCTTCATGGATGGGACCAATTGTATGACACTGGTAGACAAGGTGGG  
 CCGGGCCAACGACCTCACCATTGATTATGCCGACCAGCGACTGTACTGGACTGACCTGGA  
 CACCAACATGATTGAGTCTTCCAACATGCTGGGTGAGGAGCGCATGCTGATAGCTGACGA

FIGURE 3A

TCTGCCCTACCCGTTTGGCCTGACTCAATATAGCGATTACATCTACTGGACTGACTGGAA  
 CCTGCATAGCATTGAACGGGCGGACAAGACCAGTGGGCGGAACCGCACCCCTCATCCAGGG  
 TCACCTGGACTTCGTCATGGACATCCTGGTGTTCACCTCCTCCCGTCAGGATGGCCTCAA  
 CGACTGCGTGCACAGCAATGGCCAGTGTGGGCAGCTGTGCCTCGCCATCCCCGGAGGCCA  
 CCGCTGTGGCTGTGCTTCACACTACACGCTGGACCCAGCAGCCGCAACTGCAGCCCCGCC  
 CTCCACCTTCTTGTGTTCAGCCAGAAATTGCCATCAGCCGGATGATCCCCGATGACCA  
 GCTCAGCCCCGACCTTGTCTACCCCTTCATGGGGTGAGGAACGTCAAAGCCATCAACTA  
 TGACCCGCTGGACAAGTTCATCTACTGGGTGGACGGGCGCCAGAACATCAAGAGGGCCAA  
 GGACGACGGTACCCAGCCCTCCATGCTGACCTCTCCAGCCAAAGCCTGAGCCCAGACAG  
 ACAGCCACACGACCTCAGCATTGACATCTACAGCCGGACACTGTTCTGGACCTGTGAGGC  
 CACCAACACTATCAATGTCCACCCGGCTGGATGGGGATGCCATGGGAGTGGTGTCTCGAGG  
 GGACCGTGACAAGCCAAGGGCCATTGCTGTCAATGCTGAGCGAGGGTACATGTACTTTAC  
 CAACATGCAGGACCATGCTGCCAAGATCGAGCGAGCCTCCCTGGATGGCACAGAGCGGGA  
 GGTCTCTTCCACCACAGGCCTCATCCGTCCCGTGGCCCTTGTGGTGGACAATGCTCTGGG  
 CAAGCTCTTCTGGGTGGATGCCGACCTAAAGCGAATCGAAAGCTGTGACCTCTCTG [GGG  
 CCAACCGCTGACCCCTGGAAGATGCCAACATCGTACAGCCAGTAGGTCTGACAGTGCTGG  
 GCAGGCACCTCTACTGGATCGACCGCAGCAGATGATCGAGCGCGTGGAGAAGACC]  
ACTGGGGACAAGCGGACTAGGGTTTCAGGGCCGTGTCACCCACC [TGACAGGCATCCATGC  
 CGTGGAGGAAGTCAGCCTGGAGGAGTTCT] CAGCCCATCCTTGTGCCCGAGACAATGGCG  
 GCTGCTCCCATCTGTATCGCCAAGGGTGATGGAACACCGCGCTGCTCGTGGCCTGTCC  
 ACCTGGTGCTCCTGCAGAACCTGTGACTTGTGGTGAGCCTCCTACCTGCTCCCTGTATC  
 AGTTTGCATGTACCACTGGTGAGATCGACTGCATCCCCGGAGCCTGGCGCTGTGACGGCT  
 TCCCTGAGTGTGCTGACCAGAGTGTGAAGAAGGCTGCCAGTGTGCTCCGCCTCTCAGT  
 TCCCCCTGCGCTCGAGGCCAGTGTGTGGACCTGCGGTTACGCTGCGACGGTGAGGCCGACT  
 GCCAGGATCGCTCTGATGAAGCTAACTGCGATGCTGTCTGTCTGCCCAATCAGTTCCGGT  
 GCACCAGCGGCCAGTGTGTCTCATCAAGCAACAGTGTGACTCCTTCCCCGACTGTGTCTG  
 ATGGGTCTGATGAGCTCATGTGTGAAATCAACAAGCCACCCCTCTGATGACATCCAGCCC  
 ACAGCAGTGCCATTGGGCCCCGTCAATTGGTATCATCCTCTCCCTCTTCGTCATGGGCGGG  
 TCTACTTTGTCTGCCAGCGTGTGATGTGCCAGCGCTACACAGGGGCCAGTGGGCCCTTTC  
 CCCACGAGTATGTTGGTGGAGCCCTCATGTGCCTCTCAACTTCATAGCCCCAGGTGGCT  
 CACAGCACGGTCCCTTCCCAGGCATCCCGTGCAGCAAGTCCGTGATGAGCTCCATGAGCC  
 TGGTGGGGGGGGCGCGGCAGCGTGCCCCCTCTATGACCGGAATCACGTCACTGGGGCCCTCAT  
 CCAGCAGCTCGTCCAGCACAAAGGCCACACTATATCCGCCGATCCTGAACCCACCCCTCAT  
 CCCCCGCCACAGACCCCTCTCTTACAACGTGGACGTGTTTTATTCTTCAGGCATCCCCGG  
 CCACCGCTAGACCATAACAGGCCCTACGTCATTGAGGTATGGCACCCCCAACACACCGT  
 GCAGCACAGATGTGTGTGACAGTGAATGACTACAGCATCAGTCTGGAAGAGCAGCAATACT  
 ACCTGGACTTGAATTCGGACTCAGACCCCTACCCCCCCCCCGCCCCCCCCACAGCCAGT  
 ACCTATCTGCAGAGGACAGCTGCCACCCCTCACCAGGCACTGAGAGGAGTTACTGCCACC  
 TCTTCCCCCCCCACCGTCCCCCTGCACGGAATCGTCTGACCTCGGCCGTCCACCCGGC  
 CCTGCTGCCTCCCTGTAAATATTTTAAATATGAACAAAGGAAAAATATATTTTATGATT  
 TAAAAAATAAATATAATTGGGGTTTTTAAACAAGTGAGAAATGTGAGCGGTGAAGGGGTGG  
 GCAGGGCTGGGAACTTTTCTAG

Gene Sequence  
Structure \*

3659 bp

Sequence Deleted

3701 bp

Size of full-length  
cDNA: 5119 bp

FIGURE 3B

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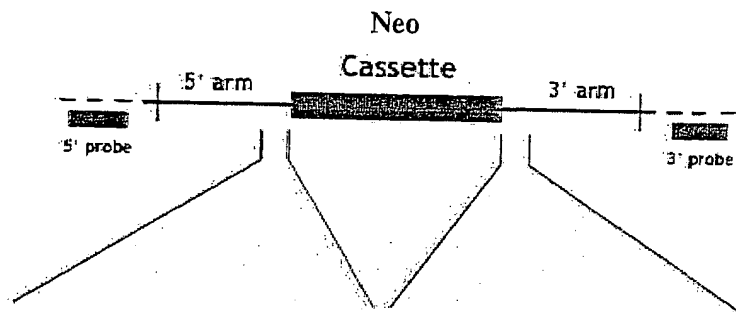
# Targeting Vector\* (genomic sequence)

Construct Number: 992

Arm Length:

5': 1.5 kb

3': 2.9 kb



———— Targeting Vector  
 - - - - - Endogenous Locus

\* Not drawn to scale

<p>5' &gt;AAATATGCATTATCCTGAGCA            CAGTGGGTCTGGCCCTTCACTTGG            CTGCCACTCATGGAGCCTTTATGC            TAACCACAGGGGCCAACCGCCTGA            CCCTGGAAGATGCCAACATCGTAC            AGCCAGTAGGTCTGACAGTGCTGG            GCAGGCACCTCTACTGGATCGACC            GCCAGCAGCAGATGATCGAGCGTG            TGGAGAAGACC&lt;3'            (SEQ ID NO: 3)            3</p>	<p>5' &gt;TCACTGGCATCCATGCAGTG:            AGGAAGTCAGCCTGGAGGAGTTCT            GTACGTGAGAGGGGACAGTGTTTG            TGGTGGGGTCTCCTGGGGGAAGGT            GAATCAGCCCTACTGGCATCAGAT            GGGCTGCTGGTGCAAGAGCAGTGT            GCCTGAGGAGCTCATGGGCTCAGC            ACCGAAGGCCAGTGCATGTCCAGA            TGTCTGCCTCT&lt;3'            (SEQ ID NO: 4)            4</p>
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FIGURE 3C

For 2000-07-20-0000

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# Phenotypic Data Summary - Open Field

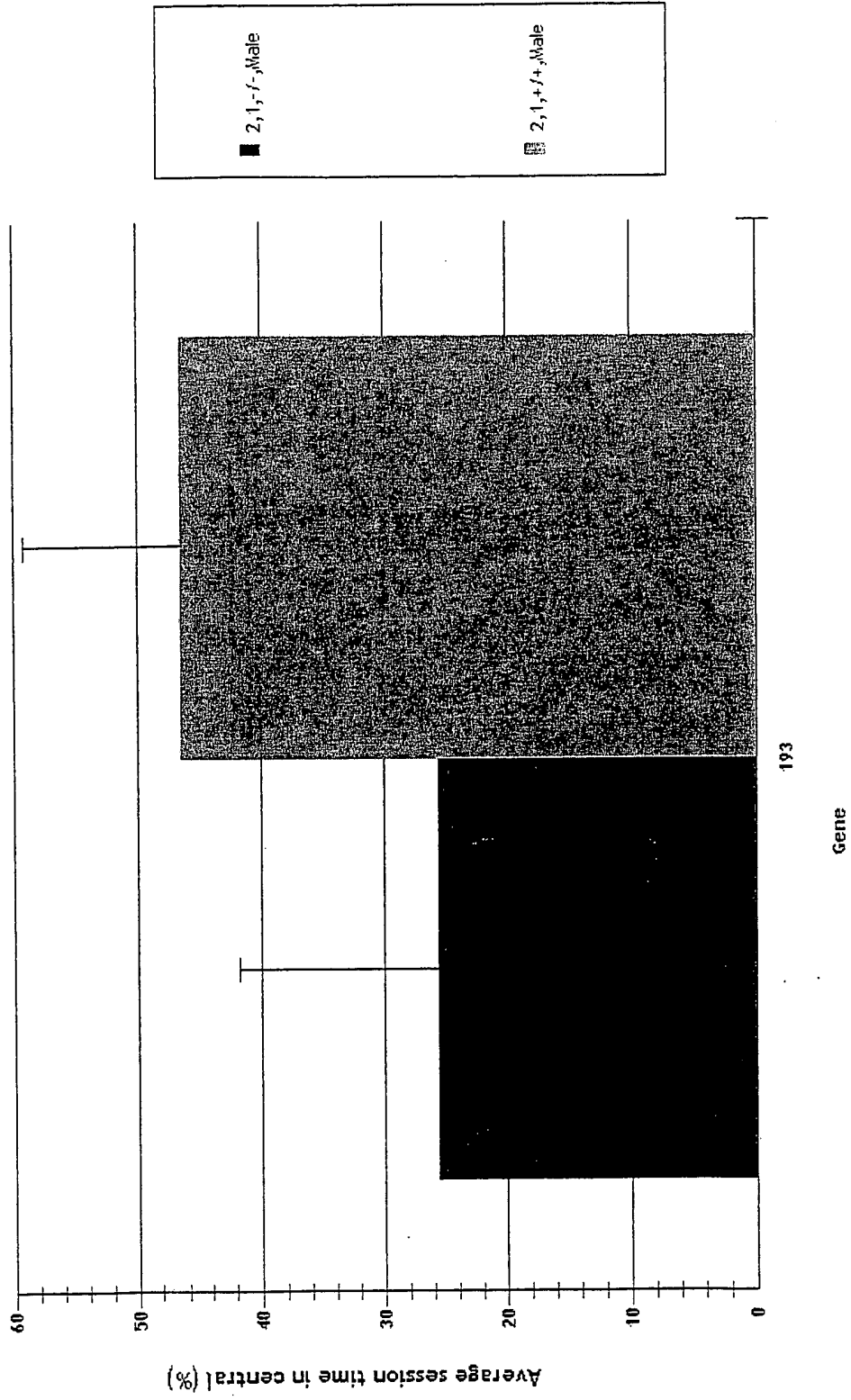


FIGURE 4



101250 04548860

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# Phenotypic Data Summary - Open Field

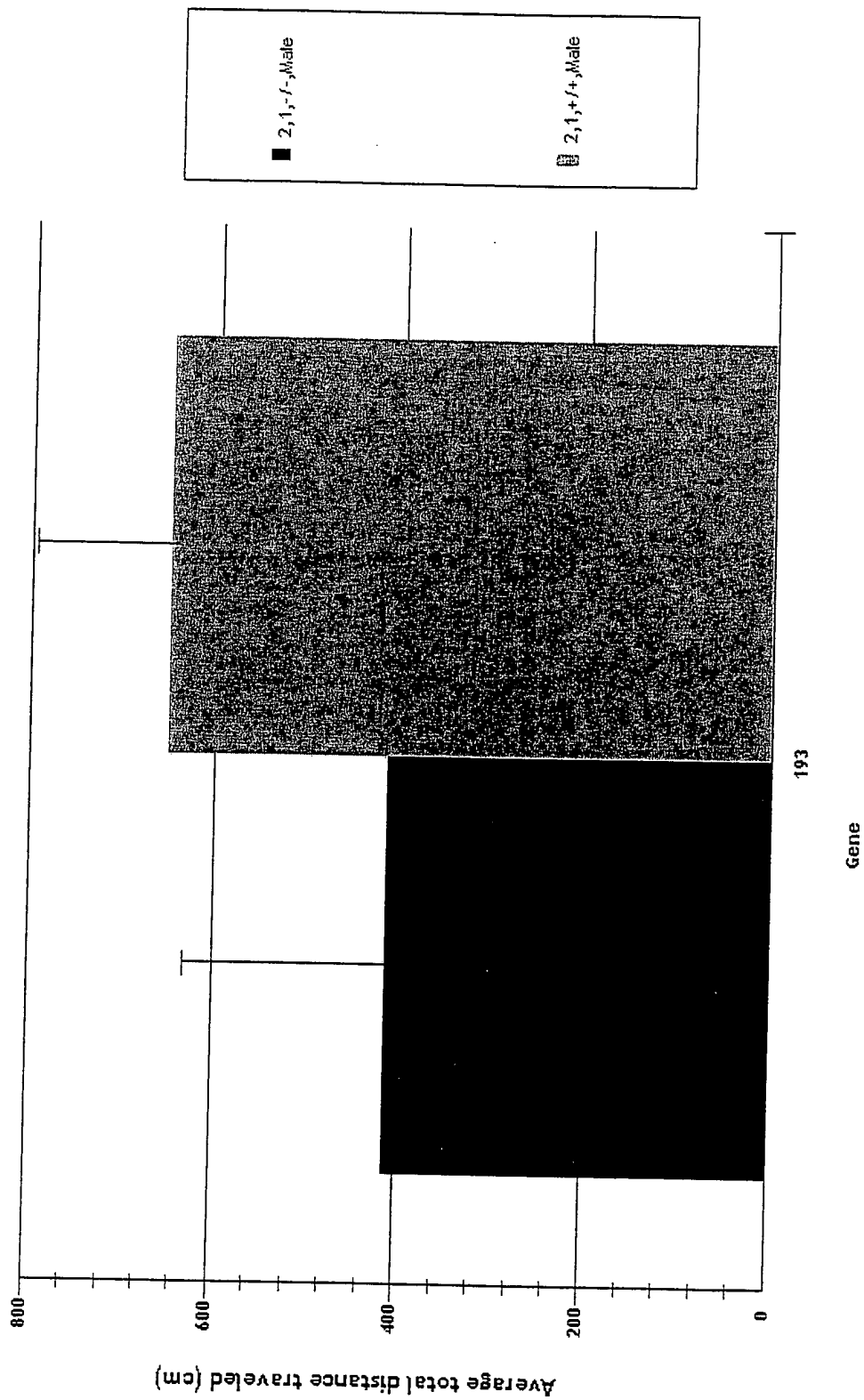


FIGURE 5